

Patent Claims:

1. A method of nebulizing a patient, comprising:
providing a nebulizer (34) having an upper semi-spherical
5 housing (36) in operative engagement with a lower semi-
spherical housing (44), the upper housing (36) having openings
(41, 43) to receive a tube (50), the tube having an upward
opening (52) defined therein;
connecting the nebulizer downstream of a filter (20) of
10 incoming air of an inhale tube (16) and upstream of a
connector (22);
adding pressurized air (45) in a tube (48) connected to a
bottom (74) of the housing (44);
exposing the air (45) to a liquid medication (47) disposed in
15 the housing (44);
the air (45) aerosolizing the liquid medication (47) into a
aerosolized medication (51);
the aero-soled medication (51) mixing with inhaling air
provided by a ventilator unit (12) and moisturized by the
20 filter (20);
the aero-soled medication (51) flowing into the opening (52)
of the tube (50); and
the aero-soled medication (51) flowing into a patient (32).
- 25 2. The method according to claim 1 wherein the method further
comprises providing the tube (50) with a bottom inner wall
(60) that has a steep section (62) and a gentle section (64).
3. The method according to claim 2 wherein the method further
30 comprises the steep section (62) causing a turbulent air flow
(68) that exits through the opening (52).
4. The method according to claim 3 wherein the method further
comprises the gentle section (64) causing an air flow (70)

that exits through an opening (66) of the tube (50) without escaping through the opening (52).

5. The method according to claim 1 wherein the method further
5 comprises providing the lower housing (44) with a valve (46) having openings (49) to permit the pressurized air (45) into the contact with the liquid medication (47).

6. The method according to claim 1 wherein the method further
10 comprises providing the lower housing (44) with a conical wall (56) to create a channel (57) between the wall (56) and the valve (46).

7. The method according to claim 1 wherein the method further
15 comprises the evaporated medication (51) flowing on an outside of the tube (50) and over the tube (50) before entering into the opening (52).

8. The method according to claim 7 wherein the method further
20 comprises the medication (51) mixing with air in the airflow (68) prior to exiting through an opening (72) of the tube (50).

9. The method according to claim 1 wherein the method further
25 comprises turning the nebulizer (34) up to a 45 degree angle alpha relative to a horizontal plane while permitting the pressurized air (45) to encounter the liquid medication (47).

10. The method according to claim 9 wherein the method
30 further comprises providing the upper housing (36) with an opening (40) for receiving the liquid medication (47).